

537,315

02 JUN 2005

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 June 2004 (17.06.2004)

PCT

(10) International Publication Number  
**WO 2004/050793 A1**

(51) International Patent Classification<sup>7</sup>: **C09K 11/06**,  
H05B 33/14, H01L 51/20, 51/30, C07F 9/02, C07D  
231/26

**SURESH, Sutheralingam** [GB/GB]; First Floor Flat,  
40 Lorne Road, Forestgate, London E7 OLJ (GB). **SEL-  
VARANJAN, Selvadurai** [GB/GB]; 285A Malden Road,  
Sutton, Surrey SM3 8ET (GB).

(21) International Application Number:  
PCT/GB2003/005303

(74) Agent: **COHEN, Alan, Nicol**; 2 Grove Place, Tatsfield,  
NR Westerham, Kent TN16 2BB (GB).

(22) International Filing Date: 5 December 2003 (05.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0228335.6 5 December 2002 (05.12.2002) GB

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **ELAM-T  
LIMITED** [GB/GB]; 103 Borough Road, London SE1  
0AA (GB).

(84) Designated States (*regional*): ARIPO patent (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

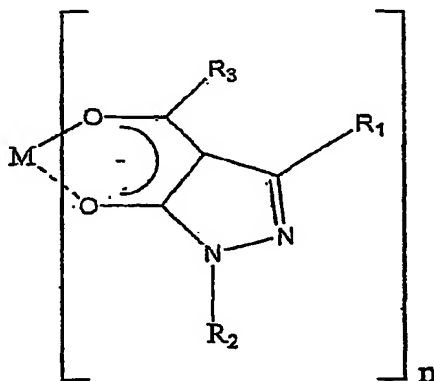
(75) Inventors/Applicants (*for US only*): **KATHIRGA-  
MANATHAN, Poopathy** [GB/GB]; The Little Lancaster  
House, 1 Lancaster Road, North Harrow, Middlesex HA2  
7NN (GB). **SURENDRAKUMAR, Sivagnanasundram**  
[GB/GB]; 16 Nolton Place, Edgware, Middlesex HA8  
6DL (GB). **GEMMELL, Patrick** [GB/GB]; 25 Monarch  
Mews, Streatham SW16 3HN (GB). **GANESHAMU-  
RUGAN, Subramaniam** [LK/GB]; 135 Antill Road,  
London N15 4BB (GB). **KUMARAVERI, Muttuling-  
ham** [GB/GB]; 9 Fraser Road, Greenford, Middlesex  
UB6 7AH (GB). **PARTHEEPAN, Arumugam** [GB/GB];  
26 Eldertree Way, Mitcham, Surrey CR4 1AG (GB).

## Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: ELECTROLUMINESCENT MATERIALS AND DEVICES



(I)

(57) Abstract: An electroluminescent material is a metal complex of 1-phenyl-3-methyl-4-trimethylacetyl-pyrazol-5-one of formula (I). An electroluminescent device comprising the compound of formula (I) in the luminescent layer is also part of the invention.

WO 2004/050793 A1